Google   "pin encryption key"   [Search]   Advanced Search
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Web   Results 1 - 10 of about 570 for "pin encryption key". (0.26 seconds)

[PDF] CHAPTER NINE - SECURITY
File Format: PDF/Adobe Acrobat - View as HTML
encrypted under a unique PIN encryption key not. used for any other purpose. Access to
stored, ... a PIN encryption key may be used for a ...
ebt.nacha.org/docs/Chapter_9.pdf - Similar pages

[PDF] NYCE LAUNCHES PIN DEBIT SECURITY AWARENESS PROGRAM
File Format: PDF/Adobe Acrobat - View as HTML
PIN Encryption Key, PIN Keys,. Key A, Terminal Master Key. Encrypt PINs or other keys in.
static manner. Change immediately if. compromise is confirmed or ...
www.nyce.net/pdf/PIN_debit_encryption.pdf - Similar pages

BlackBerry Enterprise Server's New Features, Part 1
First, a device that doesn't have the PIN-to-PIN encryption key (such as a device outside
your organization) will discard the encrypted PIN-to-PIN messages ...
windowsitpro.com/Windows/Articles/ArticleID/40061/pg/3/3.html - Similar pages

Re: Re: HSM - help on standards: msg#00103
I am working with a client that is using an Atalla 9100 HSM and when > they generate a Pin
Encryption Key (KPE) it, by default I believe has a > variant of ...
osdir.com/ml/java.jpos.devel/2005-10/msg00103.html - 22k - Cached - Similar pages

[PDF] PIN INJECTION AND KEY MANAGEMENT Procedures and Forms
File Format: PDF/Adobe Acrobat - View as HTML
The PIN pad is connected to the loading device and the PIN Encryption Key (PEK) is loaded
into the device. This. is repeated until all PIN pads scheduled ...
www.asaiatm.com/downloads/ISO_Pin_Injection.pdf - Similar pages

Discount Credit Card Machines
... PIN input for debit, EBT, and other PIN-based transactions Meets ISO and ANSI standards
for PIN encryption, key management and Message Authentication. ...
www.discountcreditcardmachine.com/sessearch.php?q=pin - 22k - Cached - Similar pages

Derived unique key per transaction - Wikipedia, the free encyclopedia
Rather, a different key is irreversibly derived from the BDK (and within a TRSM), known as
the "Initial PIN Encryption Key" (IPEK). ...
en.wikipedia.org/wiki/Derived_unique_key_per_transaction - 22k - Cached - Similar pages

(WO/2007/148236) DECRYPTION OF PERSONAL IDENTIFICATION NUMBER AND ...
[11] An Internet Protocol-compatible network element comprising: a first memory having
stored therein personal identification number (PIN) encryption key ...
www.wipo.int/pctdb/en/wo.jsp?IA=WO2007148236&WO=2007148236&DISPLAY=CLAIMS -
19k - Cached - Similar pages

Specifications (English Version)
PIN Encryption Key Management: Unique Key Per Terminal, Master/Session Key
Management, and Derived Unique Key Per Transaction ...
www.innovonics.com/pcpay/overview/specifications.html - 17k - Cached - Similar pages

Andy Orrock | Payment Systems: Creating an IPEK from a given KSN ...

By the way, is Initial PIN Encryption Key (IPEK) equivalent to DUKPT Initial Key ... Could you post an example that shows the Pin Encryption Key and the ...
www.andyorrock.com/2006/11/creating_an_ipe.html - 33k - Cached - Similar pages

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"smart card" transaction PIN encrypt   Search   Advanced Search
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Web   Results 1 - 10 of about 115,000 for "smart card" transaction PIN encrypt. (0.17 seconds)

Did you mean: "smart card" transaction PIN *encrypted*

Card reader module with pin decryption - US Patent 6736313
Authentication system and method for smart card transactions ... and decrypting an
encrypted user PIN to facilitate off-line transaction authorization. ...
www.patentstorm.us/patents/6736313.html - Similar pages

[FLASH] PC-Pay Information Merchant Issued Smartcard LOADING... PIN: 54321 ...
File Format: Shockwave Flash
Since smart card transactions move funds directly from one smart card to ... The PC Pay
device provides an encrypted PIN-pad for additional security. ...
www.innovonics.com/demo/airlines/pcpay.swf - Similar pages

DNA Smart Card for Financial Transactions
The smart card microprocessor encrypts the random number and sends it back to ... In
contemporary financial transactions, a single PIN of a magnetic stripe ...
www.acm.org/crossroads/xrds11-1/dnasmartcard.html - 18k - Cached - Similar pages

sci.crypt: Re: HELP, Vulnerability in Debit PIN Encryption ...
not the case where PIN encryption had to be ... > derived from the card number ... requiring
a PIN entry on every transaction, including credit card (as ...
www.derkeiler.com/Newsgroups/sci.crypt/2003-05/0464.html - 20k - Cached - Similar pages

U.K. researchers devise smart-card hack | Tech News on ZDNet
Feb 6, 2007 ... "When customers pay with a chip and PIN card, they have no choice but to
trust the terminal when it displays the amount of the transaction. ...
news.zdnet.com/2100-1009_22-151132.html - 57k - Cached - Similar pages

Authentication system and method for smart card transactions ...
receiving the PIN at the terminal during the transaction; ..... Conversely, if the smart card
encrypts a message using its private key (which only the smart ...
www.freepatentsonline.com/5721781.html - Similar pages

[PPT] Session 5a Key and PIN Management
File Format: Microsoft Powerpoint - View as HTML
Generate Offline Pin & encrypt it under Transport Key. 17. How to add EMV (crypto) data to
Cards? Data preparation phase, you can use. Smart Card Management ...
www.centralbank.ae/Events2007/SmartCard/ACI-Worldwide/5a-KeyandPIN.pps -
Similar pages

[PDF] the ideal solution for PIN-based transactions
File Format: PDF/Adobe Acrobat - View as HTML
Whether customers use magnetic stripe or smart card technology, ... detection, encryption
coprocessor. PIN Encryption. DES: PIN-ANSI 9.8, MAC-ANSI 9.9, ...
www.igda.com/Equipment/Multi_S9.pdf - Similar pages

SPYRUS Rosetta Series II Smart Card & USB
The PIN is used to derive a decryption key used for validation. All private data on the card,
including the keys, is stored in encrypted form using a ...

www.spyrus.com/products/rosetta_smart_usb.asp - 22k - Cached - Similar pages

global card payment service, secure credit card transactions
A validated EMV chip and PIN transaction guarantees payment from the bank to .... the till
software itself does not 'see' the PIN, even in encrypted form. ...
www.3cint.com/chip-and-pin.php - 52k - Cached - Similar pages

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DNA Smart Card for Financial Transactions
The smart card microprocessor encrypts the random number and sends it back to ... In
contemporary financial transactions, a single PIN of a magnetic stripe ...
www.acm.org/crossroads/xrds11-1/dnasmartcard.html - 18k - Cached - Similar pages

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Generate Offline Pin & encrypt it under Transport Key. 17. How to add EMV (crypto) data to
Cards? Data preparation phase, you can use. Smart Card Management ...
www.centralbank.ae/Events2007/SmartCard/ACI-Worldwide/5a-KeyandPIN.pps -
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Authentication system and method for smart card transactions ...
receiving the PIN at the terminal during the transaction; ..... Conversely, if the smart card
encrypts a message using its private key (which only the smart ...
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Home and Personal Use Examples
These are real debit card transactions to load eCash to a smart card right in ... your private
key by using the PIN-Pad to "unlock" the smart card where the ...
www.innovonics.com/pcpay/usage/home.html - 15k - Cached - Similar pages

[DOC] Implementation of Transaction Safeguards
File Format: Microsoft Word - View as HTML
Smart card readers come with basic software to operate the system. .... information that has
been encrypted with a user's private key with a single request. ...
www.dir.state.tx.us/IRAPC/practices/word/k1.doc - Similar pages

ARCHIVED 9/28/2007
For higher risk transactions, the PIN may be issued by the organization sponsoring .... in an
encrypted signature object being created within a document, ...
www.cio.state.ny.us/esra/Guidelines_files/02-06.htm - 15k - Cached - Similar pages

Authentication system and method for smart card transactions - US ...
The smart card compares this PIN with the correct PIN kept in its memory to .... Conversely,
if the smart card encrypts a message using its private key ...
www.patentstorm.us/patents/5721781/description.html - Similar pages

Secure E-Commerce with Smart Cards
An intruder can use a private key to easily forge transactions. ... The smart card processes
any information that you need to encrypt by using your private ...
www.ntsecurity.net/article/articleid/7195/secure-e-commerce-with-smart-cards.html -
Similar pages

SRP: Myths About Multifactor Authentication
This is usually implemented by encrypting the private key on the smartcard with the ... To
authenticate a transaction, the smart card uses SRP-3 as follows. ...
www.usrback.com/crypto/srp/others.html - 16k - Cached - Similar pages

[PPT] Smart Card Technology
File Format: Microsoft Powerpoint - View as HTML
PIN is like password, which is securely stored in the Smart Card. ... Public Key used for
Encryption and Private key for Decryption. Plain Text. Encrypt ...
elearning.nic.in/mdp/4-smart-card-technology/smart-card-technology.ppt/download -
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[PPT] **Whitenoise Super Key encryption**
File Format: Microsoft Powerpoint - View as HTML
The first level authentication PIN number is entered and the transaction begins. ... with UID,
starting offset, key info, encrypts private key with ...
www.wnlabs.com/Presentations/Stop%20Credit%20Card%20and%20Identity%20Theft.pps -
Similar pages

Highly robust biometric smart card design - Consumer Electronics ...
2 Dimension and contact pins of a smart card. Table 2 Smart card pin functions .....
generation of a biometric-based private key for encryption ...
ieeexplore.ieee.org/iel5/30/19895/00920462.pdf?arnumber=920462 - Similar pages

11 charged in theft of 41 million card numbers - CNET News.com
Aug 6, 2008 ... The only way to get the private key would be to steal each ... The hardware
had to be hacked or they also had the PIN encryption keys ! ...
news.cnet.com/11-charged-in-theft-of-41-million-card-numbers/2100-7348_3-6244876.html -
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ePaynews.com - payment news and resource center - payment resources
PCI certification covers all aspects of PIN security from PIN encryption during ... Smart
card: See chip card. back to top. Transaction: This is any action ...
www.epaynews.com/glossary/part2.html - 27k - Cached - Similar pages

Information Security Technical Report : EMV card payments – An ...
The article ends by looking at some newer uses of smart card technology in ... in order to
transmit the PIN encrypted between the ATM or merchant's PIN pad ...
linkinghub.elsevier.com/retrieve/pii/S1363412706000161 - Similar pages

(WO/2000/028493) A METHOD OF ENCRYPTION AND APPARATUS THEREFOR
The symmetric key is used is the embodiment of the invention to encrypt transaction
dependent information which then forms part of the public/private key ...
www.wipo.int/pctdb/en/wo.jsp?IA=SG1998000088&DISPLAY=DESC - 36k -
Cached - Similar pages

[PDF] **Smart-Card Devices and Applications Smart-Card Variations ...**
File Format: PDF/Adobe Acrobat - View as HTML
Encrypts the hash value using his private key to create a digital signature ... PINs also
provide protection for keys stored on a smart card. ...
www.netcaucus.org/books/egov2001/pdf/SmartCar.pdf - Similar pages

[PDF] **Advanced Authentication**
File Format: PDF/Adobe Acrobat - View as HTML
together with the PIN, encrypted in a secure block of data, is sent to the ... is read and
encrypted under a cryptographic key held on the smart card. ...
www.thales-esecurity.com/Whitepapers/documents/Advanced_Authentication_.pdf -
Similar pages

November 2002 ESRA Report to the Governor and Legislature (OFT)

SSL is currently built into almost all popular Web browsers and encrypts in a ... For higher
risk transactions, the PIN may be issued by the organization ...
www.oft.state.ny.us/esra/ESRA_Report_2002/ESRA_Report_section1.htm - 21k -
Cached - Similar pages

Mike Hendry - Smart Card Glossary
Summary of Smart Card Glossary Terms. ... Digital signature, An encrypted field, normally
encrypted using the sender's private key, which is attached to a ...
www.mikehendry.co.uk/glossary.html - 43k - Cached - Similar pages

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A Security Improved OpenSST Prototype Combining with Smart Card
will be encrypted with this secure key. A secure. transaction tunnel is established. 4.2.
Security analysis. As mentioned above, the private key of the user ...
doi.ieeecomputersociety.org/10.1109/ICCNMC.2003.1243070 - Similar pages

Smart Cards and Biometrics: Your Key to PKI
All three storage methods—hard disk, floppy or smart card—could use symmetric
encryption (shared-secret password or PIN) to secure the private key. ...
www.linuxjournal.com/article/3013 - 49k - Cached - Similar pages

[PDF] EMV flaws and fixes: vulnerabilities in smart card payment systems
File Format: PDF/Adobe Acrobat - View as HTML
Jun 11, 2007 ... Signature using card's private key over terminal nonce and card ... accepted
for offline transactions, with any PIN ...
www.cl.cam.ac.uk/~sjm217/talks/leuven07emv.pdf - Similar pages

CCAvenue :: FAQ's on Credit Card Processing India
A smart card is a Credit Card with a built-in microprocessor and memory used for ... SSL
uses a private key to encrypt data and then sends this over the SSL ...
www.ccavenue.com/content/faq_ecommerce.jsp - 75k - Cached - Similar pages

Global Forte - Security
When a CA issues a certificate, the CA's private key is used to sign the .... processing
systems to deliver PIN encryption and verification within the ...
www.globalforte.com/departments/security/e-business.jsp - 49k - Cached - Similar pages

[PPT] Secure Web Transactions
File Format: Microsoft Powerpoint - View as HTML
Public key encryption. Separate public key pk and private key sk ... gets a PIN; Special
software on customer side sends PIN, signature, transaction amount ...
www.it.iitb.ac.in/~sri/talks/secnet.ppt - Similar pages

Java CArd For E-Payment Applications - Google Books Result
by Vesna Hassler, Martin Manninger, Pedrick Moore ... - 2002 - Computers - 382 pages
Next, the whole data block is encrypted with the card's private key. ... Online PIN
verification (PIN encrypted with symmetric cryptography); • Offline PIN ...
books.google.com/books?isbn=1580532918...

Accountancy Article: Electronic Signatures and Encryption ...
Good security requires that the smart card and the PIN be held separately. ... Private key
encryption. In private key (symmetric) encryption, ...
www.accountancy.com.pk/articles.asp?id=3 - 46k - Cached - Similar pages

Smart Card Basics - Security (pg. 3)
The card data may be encrypted but the transmission to the host can be ... volume of
transactions managed daily and the hassles that come with private key ...
www.smartcardbasics.com/security_3.html - 14k - Cached - Similar pages

[PDF] Chip Terms Explained
File Format: PDF/Adobe Acrobat - View as HTML
PIN – Personal Identification Number. Post-Issuance Update. Private Key. Public Key ... of
card, terminal, and transaction data encrypted by a DES key. ...
www.visa-asia.com/ap/center/merchants/productstech/includes/uploads/CTENov02.pdf -
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Results 41 - 50 of about 47,900 for "smart card" transaction PIN encrypt "private key". (0.18 seconds)

[PDF] A Not So Smart Card -
File Format: PDF/Adobe Acrobat - View as HTML
The second data block contains information from the plain text encrypted (signed) with the.
private key of the card issuer (cipher text). ...
events.ccc.de/congress/2006/Fahrplan/attachments/1115-A_Not_So_Smart_Card.pdf -
Similar pages

National Security Concerns
However, a smart card that requires any part of the signing, encryption or ... of the
public/private key pair and the security of the private key – and ...
www.bizforum.org/whitepapers/ssp.htm - 40k - Cached - Similar pages

Enterprise Authentication
1. Print or Email lists of PINS to be used for the next batch of transactions. 2. Download with
encryption the formula or the selected PINS to a smart card ...
www.tal-tech.com/moneypins.htm - 77k - Cached - Similar pages

[PDF] Product Brief iKey 2000 Series – Smart Devices for Two-Factor ...
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transactions. The user must first create a unique PIN to enable. the iKey 2000. .... iKey 2000
Smart Card. Philips 858. 8KB. 1024-bit Encryption ...
www.stelzner.com/PDF/Rainbow-iKey2000.pdf - Similar pages

[PDF] Product Brief iKey 2000 Series – Smart Devices for Two-Factor ...
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transactions. The user must first create a unique PIN to enable. the iKey 2000. .... 1024-bit
Encryption. Model 320. (iKey 2000 Smart Card ...
www.cyprotect.com/rainbow/ikey2000/ikey2000productbrief.pdf - Similar pages

[PDF] Test Approach v0.3 For Secure Biometrics Match-on-Card (SBMOC ...
File Format: PDF/Adobe Acrobat - View as HTML
PKI transaction times suggest that the approach could meet a success .... The smart card
reader encrypts the sample template using the session encryption ...
csrc.nist.gov/groups/SNS/piv/documents/NIST-BMOC-Test-Approach.pdf - Similar pages

The Smart Card Cryptographic Service Provider Cookbook
CryptGetUserKey should succeed without the PIN. However, some operations (such as
writing to the smart card and private key operations) using the handle ...
msdn.microsoft.com/en-us/library/ms953432.aspx - 68k - Cached - Similar pages

CS349 Introduction to E-commerce: electronic payment systems
After the customer approved the transaction, an encrypted payment order was sent to ...
Because of this capacity, a single smart card can be used for many ...
cs.wellesley.edu/~ecom/lecture/payment.html - 19k - Cached - Similar pages

Asymmetric encrypted pin - US Patent 7039809
If the PIN is valid, the transaction will proceed pending other verifications. ..... is not provided
the private key which is required to open the encrypted ...

www.patentstorm.us/patents/7039809-description.html - Similar pages

Asymmetric encrypted pin - Patent 7039809
A system for decoding encrypted transaction data including account PIN ..... 310 is not
provided the private key which is required to open the encrypted ...
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Did you mean: hash "transaction sequence number" *encrypted* PIN

Key management technique for establishing a secure channel ...
The method according to claim 1 further comprising: receiving a PIN encryption key KPE at
a card issuer server; computing a hash H of transaction data; ...
www.freepatentsonline.com/y2005/0172137.html - Similar pages

Single one-time password token with single PIN for access to ...
The method of claim 5, further comprising receiving a hash of a personal ...... Each individual
service provider can download the encrypted PIN and token ...
www.freepatentsonline.com/y2007/0130463.html - Similar pages
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(WO/2007/067349) SINGLE ONE-TIME PASSWORD TOKEN WITH SINGLE PIN ...
Thus, although the digital signing and encryption parts of the PKI ..... 210 sends the PIN
change request to the third party 230 by hashing the PIN first. ...
www.wipo.int/pctdb/en/wo.jsp?IA=WO2007067349&wo=2007067349&DISPLAY=DESC - 80k
- Cached - Similar pages

Transaction authorization system - US Patent 6675153
In one implementation, the encrypted data includes the hash of the member's ... shipping
address aliases, the unique transaction sequence number from the ...
www.patentstorm.us/patents/6675153-description.html - Similar pages

Slashdot | Citibank Tries to Hush ATM Crypto Vulnerability
Feb 21, 2003 ... For example, many banks used to encrypt each customers PIN using a .....
of the machine it's coming from, transaction sequence number, etc. ...
slashdot.org/articles/03/02/21/1711249.shtml?tid=93 - 187k - Cached - Similar pages

[PDF] E-Cash Withdrawal using Mobile Telephony
File Format: PDF/Adobe Acrobat - View as HTML
encryption techniques:. PIN identication: only the authenticated, ... erating a 16-byte hash
value from input values whose lengths are an integer multiple ...
lukejamesoconnor.googlepages.com/1999ecashwithdrawal-rz3113.pdf - Similar pages

0018-8646/99/$5.00 (C) 1999 IBM S/390 CMOS Cryptographic ...
Similarly, the PIN generation key and PIN verification key types are merged into ..... The use
of strong hash algorithms rather than an encryption algorithm ...
www.research.ibm.com/journal/rd/435/yeh.txt - 76k - Cached - Similar pages
by PC Yeh - Cited by 6 - Related articles - All 5 versions

[PS] Papers on Smartcard Engineering
File Format: Adobe PostScript - View as HTML
We have a number of encryption algorithms which are thought. to be good (DES, IDEA, ... a
major English bank, and told them that she had forgotten her PIN; ...
www.fit.vutbr.cz/~cvrcek/cards/smartcards.ps - Similar pages
by R Anderson - Related articles - All 11 versions

[PDF] **The information is provided as a service by the editor without any ...**
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checksum generation for integrity and/or verification of checksum, secure hash. (message digest), cryptographic key encryption and/or decryption, ...
www.eurosmart.com/4-Documents/Files/SCGlossary.pdf - Similar pages

[PDF] **Microsoft PowerPoint - Lect4_slides.ppt**
File Format: PDF/Adobe Acrobat - View as HTML
basic security features, such as data encryption and MAC. filtering - disabled by default ....
Relatively weak compared to a hash or message authentication ...
www.it.lth.se/ssoa/Lectures/Lect4_slides.pdf - Similar pages

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(WO/2003/065164) SYSTEM AND METHOD FOR CONDUCTING SECURE PAYMENT ...

For example, the data to be encrypted can be a concatenation of the merchant ...
Transaction Sequence Number A unique number assigned to this AAV by this ...
www.wipo.int/pctdb/en/wo.jsp?IA=US2003002817&DISPLAY=DESC - 110k -
Cached - Similar pages

Slashdot | Citibank Tries to Hush ATM Crypto Vulnerability

For example, many banks used to encrypt each customers PIN using a key known ..... What
goes across the line is considerably more than a hash of the pin and ...
slashdot.org/article.pl?sid=03/02/21/1711249&tid=93 - 153k - Cached - Similar pages

[PDF] GP Load and Personalization Interface Specification

File Format: PDF/Adobe Acrobat - View as HTML
1998 — Information technology – Security techniques - Hash functions –Part ...... the PEK
(PIN Encryption Key). PEK is considered as a specific type of TK. ...
www.globalplatform.org/specifications/archived/archived-GP_LPIS_1.0.pdf - Similar pages

[PDF] Protecting E-Commerce Systems

File Format: PDF/Adobe Acrobat - View as HTML
(CS, KS) and its bank (CB, KB), plus a transaction sequence number S#. Then the cus-.
tomer sends a message containing an order, encrypted under the ...
www.cl.cam.ac.uk/~rja14/Papers/SE-19.pdf - Similar pages
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wdiff draft-ietf-pkix-ipki3cmp-00.txt draft-ietf-pkix-ipki3cmp-01.txt

It then generates new user signature and/or encryption public-key certificate(s). The CA
responds with the message KeyUpdRep. publishes a hash of this value ...
tools.ietf.org/wg/pkix/draft-ietf-pkix-ipki3cmp/draft-ietf-pkix-ipki3cmp-01-from-00.wdiff.html -
261k - Cached - Similar pages

Cryptographic method for updating financial records - Patent 5231666

Anyone can now encrypt messages and send them to the user, but no one else ... A method
for producing digital signatures based on the hash of the data to be ...
www.patentmonkey.com/PM/patentid/5231666.aspx - 126k - Cached - Similar pages

[PDF] Ch. 8 – Security (Draft)

File Format: PDF/Adobe Acrobat - View as HTML
Set Authentication Transaction Sequence Number to 1 .... card plus a PIN. ...... encrypt the
data. WEP Key hashing protects weak Initialization ...
www.cabrillo.edu/~bmcmahon/CIS160W-2007/notes/mod8-security-authen.pdf -
Similar pages

EP1374131 Mastercard european software patent - System and method ...

For example, the data to be encrypted can be a concatenation of the ... The Transaction
Sequence Number used in the previous AAV is incremented by a ...
gauss.ffii.org/PatentView/EP1374131 - 187k - Cached - Similar pages

[PDF] ([WHUQDO ,QWHUIDFH6SHFLILFDWLRQ $XWKRUL]DWLRQ5HFRUG)RUPDWV
File Format: PDF/Adobe Acrobat
Transaction Sequence Number. Authorization Transaction Code ...... The encrypted PIN
block format consists of 64 bits of data ...
www.pruefziffernberechnung.de/Originaldokumente/EIS_1080_v6_3_(final).pdf -
Similar pages

RFC 2458 (rfc2458) - Toward the PSTN/Internet Inter-Networking ...
Requests and responses may also be signed and encrypted. ...... This allows the collection of
account numbers or passwords (or PINs) and forms the heart of ...
www.faqs.org/rfcs/rfc2458.html - 133k - Cached - Similar pages

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hash "transaction sequence number" encrypt PIN   [Search]

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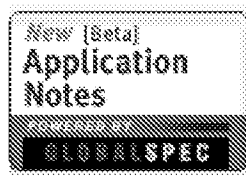
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